# Revised LIMITS Magnet Configuration

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#### **Participants**

- Richard Nygren
- Tina Tanaka
- Jimmie McDonald
- Tom Lutz
- Fred Bauer
- Ken Troncosa
- Dennis Youchison



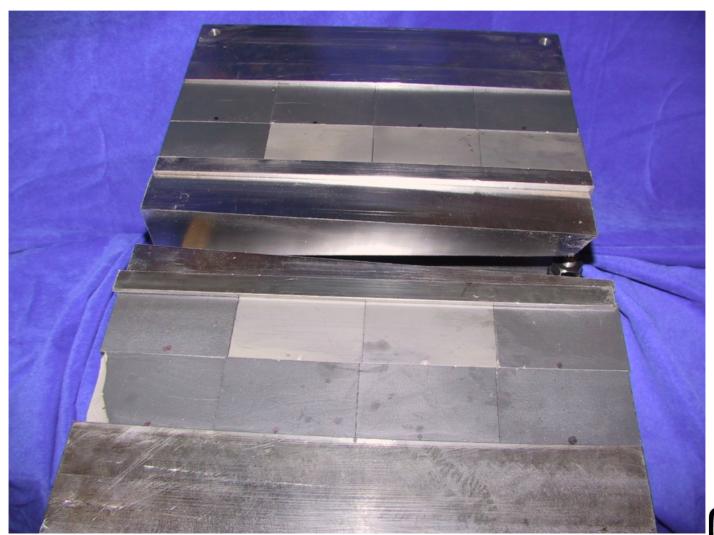


#### **Changes Made**

- LIMITS magnet pole tips redesigned using OPERA 3D
  - Gap adjusted to give better approximation to NSTX toroidal field variation over divertor
  - Angle adjusted to give better approximation to NSTX field normal to divertor surface variation
  - Field measured for actual pole tips
- Comparison shows close agreement with NSTX configuration

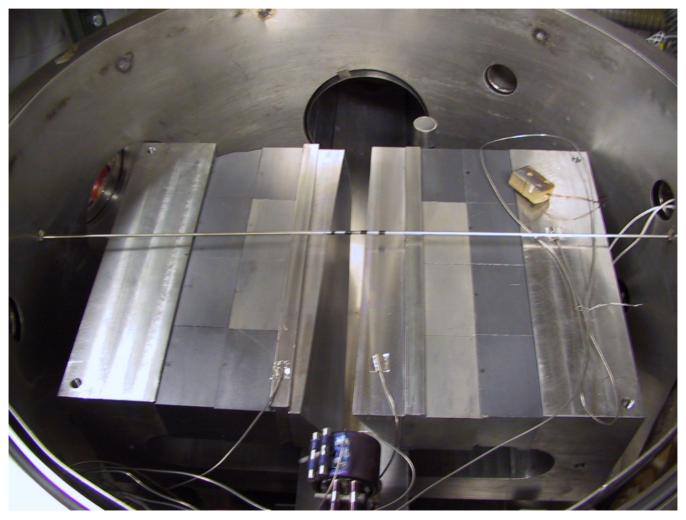


# **NSTX Simulation Magnet II**



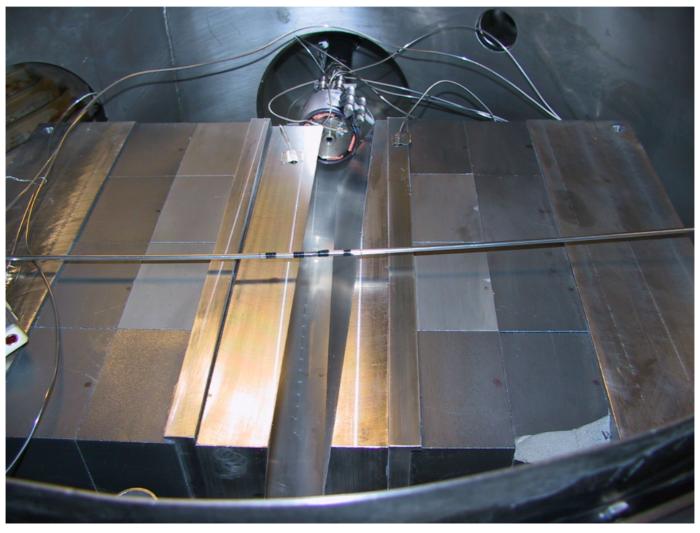


# **Magnet in Limits (downstream)**



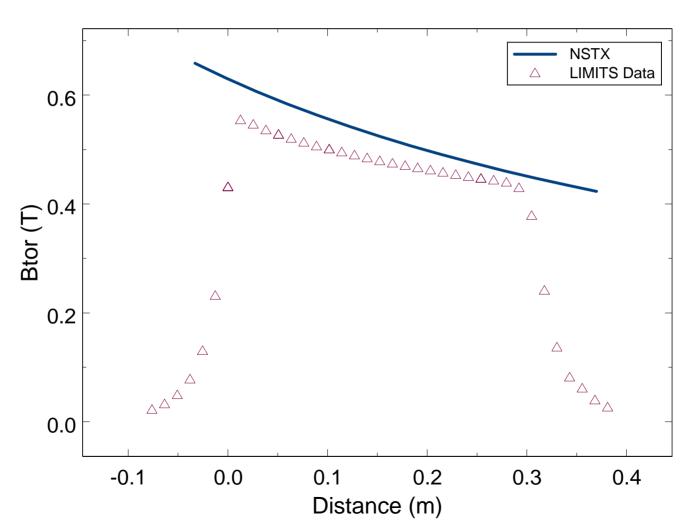


# Magnet in LIMITS (upstream)



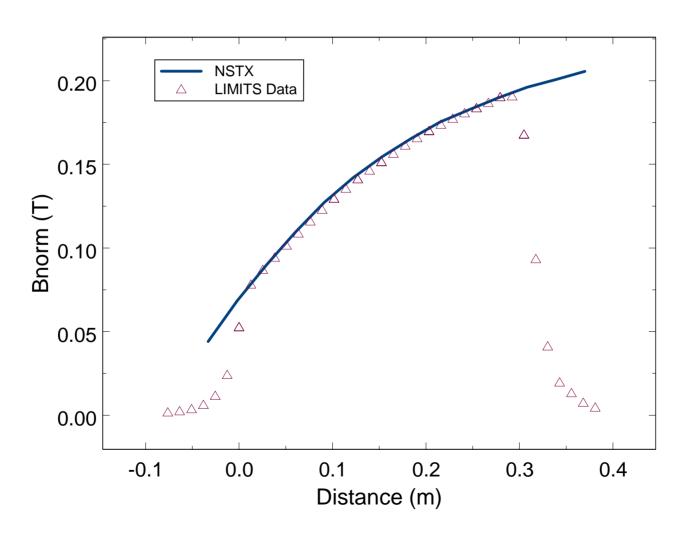


## **Toroidal Field Comparison**





## **Normal Field Comparison**





## **Ratio Comparison**

